ORF1 (5079bp)

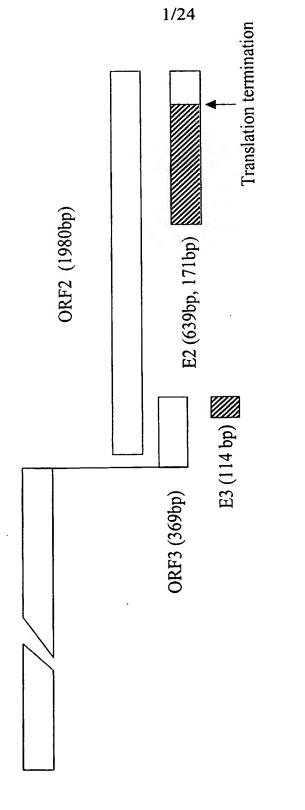


Figure 1

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v10 ORF2 5147 ATGCGCCCTCGGCCTATTTTGCTGTTGCTCCTCATGTTTCTGCCTATGCT v60 ORF2 5197 GCCCGCCCCCCCCCGCTCAGCCGTCTGGCCGCCGTCGTGGGCGGCGCA v110 ORF2 5247 GCGGCGGTTCCGGCGGTGGTTTCTGGGGTTGACCGGGTTGATTCTCAGCCC v160 ORF2 5297 TTCGCAATCCCCTATATTCATCCAACCAACCCCTTCGCCCCCGATGTCAC v210 ORF2 5397 GCTCCGCTTGGCGTGACCAGGCCCAGCGCCCGCCGTTGCCTCACGTCGT v310 ORF2 5447 AGACCTACCACAGCTGGGGCCGCCGCCGCTAACCGCGGTCGCTCCGGCCCA v360 ORF2 5497 TGACACCCCGCCAGTGCCTGATGTTGACTCCCGCGCGCCCATCCTGCGCC v410 v ORF2 5547 GGCAGTATAACCTATCAACATCTCCCCTTACTTCTTCCGTGGCCACCGGT v460 ORF2 5597 ACAAACTTGGTTCTATACGCCGCTCCTCTTAGCCCACTTCTACCCCTCCA v510 ORF2 5647 GGACGGCACCAATACTCATATAATGGCCACAGAAGCTTCTAATTATGCCC v560 ORF2 5697 AGTACCGGGTTGCTCGTGCCACAATTCGCTACCGCCCGCTGGTCCCCAAC v610 ORF2 5747 GCTGTTGGTGGCTACGCCATCTCCATCTCGTTCTGGCCACAGACCACCAC v660 ORF2 5797 CACCCCGACGTCCGTTGACATGAATTCAATAACCTCGACGGATGTTCGTA v710 ORF2 5847 TTTTAGTCCAGCCCGGCATAGCCTCCGAGCTTGTTATCCCAAGTGAGCGC

## Figure 2A

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ORF2	5897	v760 v v v v CTACACTACCGTAACCAAGGTTGGCGCTCTGTTGAGACCTCCGGGGTGGC
ORF2	5947	v810 v v v v GGAGGAGGAGGCCACCTCTGGTCTTGTTATGCTCTGCATACATGGCTCAC
ORF2	5997	V860 V V V V CTGTAAATTCTTATACTAATACACCTTATACCGGTGCCCTCGGGCTGTTG
ORF2	6047	v910 v v v v SACTTTGCCCTCGAACTTGAGTTCCGCAACCTCACCCCGGTAATACCAA
ORF2	6097	V960 V V V V CACGCGGGTCTCCCGTTACTCCAGCACTGCCCGTCACCGCCTTCGTCGCG
ORF2	6147	V1010 V V V V GTGCAGATGGGACTGCCGAGCTTACCACCACGGCTGCTACCCGCTTCATG
ORF2	6197	V1060 V V V V AAGGACCTCTATTTTACTAGTACTAATGGTGTCGGTGAGATCGGCCGTGG
ORF2	6247	v1110 v v v v v GATAGCGCTTACCCTGTTTAACCTTGCTGACACCCTGCTTGGCGGTCTAC
ORF2 E2	6297	v1160 v v v v v CGACAGAATTGATTTCGTCGGCTGGTGGCCAGCTGTTCTACTCTCGTCCC :::::::::::::::::::::::::::::
ORF2		v1210 v v v v v STCGTCTCAGCCAATGGCGAGCCGACTGTTAAGCTTTATACATCTGTAGA
ORF2 E2		v1260 v v v v v GAATGCTCAGCAGGATAAGGGTATTGCAATCCCGCATGACATCGACCTCG
ORF2 E2		v1310 v v v v GGGAGTCTCGTGTAGTTATTCAGGATTATGACAACCAACATGAGCAGGAC GGGAGTCTCGTGTAGTTATTCAGGATTATGACAACCAACATGAGCAGGAC

# Figure 2B

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OD E3	6407	v1360 v v v v v CGACCGACACCTTCCCCAGCCCCATCGCGCCCTTTTTCTGTCCTCCGAGC
E2	172	CGACCGACACCTTCCCCAGCCCCATCGCGCCCTTTTTCTGTCCTCCGAGC
		v1410 v v v v
ORF2	6547	TAATGATGTGCTTTGGCTTTCTCTCACCGCTGCCGAGTATGACCAGTCCA
E2	222	TAATGATGTGCTTTGGCTTTCTCTCACCGCTGCCGAGTATGACCAGTCCA
0550	6507	v1460 v v v v
ORF2		CTTACGGCTCTTCGACCGGCCCAGTCTATGTCTCTGACTCTGTGACCTTG
E2	272	CTTACGGCTCTTCGACCGGCCCAGTCTATGTCTCTGACTCTGTGACCTTG
		v1510 v v v v
ORF2	6647	GTTAATGTTGCGACCGGCGCGCAGGCCGTTGCCCGGTCACTCGACTGGAC
E2	322	GTTAATGTTGCGACCGGCGCGCAGGCCGTTGCCCGGTCACTCGACTGGAC
0.5.770	6607	v1560 v v v v
ORF2		CAAGGTCACACTTGATGGTCGCCCCCTTTCCACCATCCAGCAGTATTCAA ::::::::::::::::::::::::::::::::
E2	372	CAAGGTCACACTTGATGGTCGCCCCCTTTCCACCATCCAGCAGTATTCAA
		v1610 v v v v
ORF2	6747	AGACCTTCTTTGTCCTGCCGCTCCGCGGTAAGCTCTCCTTTTGGGAGGCA
E2	422	AGACCTTCTTTGTCCTGCCGCTCCGCGGTAAGCTCTCCTTTTGGGAGGCA
	6202	v1660 v v v v v
ORF2		GGTACTACTAAAGCCGGGTACCCTTATAATTATAACACCACTGCTAGTGA
E2	472	GGTACTACTAAAGCCGGGTACCCTTATAATTATAACACCACTGCTAGTGA
		v1710 v v v v
ORF2	6847	CCAACTGCTCGTTGAGAATGCCGCTGGGCATCGGGTTGCTATTTCCACTT
E2	522	CCAACTGCTCGTTGAGAATGCCGCTGGGCATCGGGTTGCTATTTCCACTT
	J22	
		v1760 v v v v
ORF2		ACACCACTAGCCTGGGTGCTGGTCCCGTCTCTATTTCCGCGGTTGCTGTT
E2	572	ACACCACTAGCCTGGGTGCTGGTCCCGTCTCTATTTCCGCGGTTGCTGTT

# Figure 2C

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		v1810	v	v	v	v		
ORF2	6947	TTAGCCCCCCACTCCGC	GCTAGCATI	TGCTTGAGG	ATACCATGGA	CTACCC		
E-0	622	TTAGCCCCCC_CTCCGC	᠂᠄᠄᠄᠄᠄᠄	CCTTCAGG	TACCATGGA	TACCC		
E2	622	TIAGCCCCCQ_CTCCGC		IGCI I GAGG	1171001110011	3111000		
			Stop code					
		v1860	v	v	v	v		
ORF2	6997	TGCCCGCGCCCATACTT	TCGATGACT	TCTGCCCG	GAGTGCCGCC	CCCTTG		
			::::::::					
E2	672	TGCCCGCGCCCATACTT	TCGATGACT	Prorected	JAGTGCCGCC	CCTTG		
		1010		v	v	v		
00.00	7047	v1910 GCCTCCAGGGCTGTGCT	V mmmcncmcr		· ·			
ORF2	7047	GCCTCCAGGGCTGTGCT	TITCAGIC.	ACIGICGC	::::::::	:::::		
E2	722	GCCTCCAGGGCTGTGCT	TTTCAGTC	PACTGTCGC	TGAGCTTCAG	CGCCTT		
		End of ORF2						
		v1960	v	∨ ↓	V	v		
ORF2	7097	AAGATGAAGGTGGGTAA	AACTCGGG	AGTTALTAGT	TTATTTGCTT	GTGCCC		
E0	770	AAGATGAAGGTGGGTAA	\	:::::::: \crrp\racr	ጥጥልጥጥጥ			
E2	112	AAGAIGAAGGIGGGIAA	MACICOGG	AGIIAIAGI	11/1111			
		v2010	v	v	v	v		
ORF2	71470	CCCTTCTTTCTGTTGCT	•	TTTCTGCGT	TCCGCGCTCC	CTGAAA		
OIXI Z	, _ , ,	000110111010110011						
ORF2	7197	AAA						

Figure 2D

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v10 ORF3 5106 ATGAATAACATGTCTTTTGCTGCGCCCATGGGTTCGCGACCATGCGCCCT v60 ORF3 5156 CGGCCTATTTTGCTGTTGCTCCTCATGTTTCTGCCTATGCTGCCCGCGCC v110 v160 ORF3 5256 CCGGCGGTGGTTTCTGGGGTGACCGGGTTGATTCTCAGCCCTTCGCAATC v210 ORF3 5306 CCCTATATTCATCCAACCAACCCCTTCGCCCCCGATGTCACCGCTGCGGC v260 ORF3 5356 CGGGGCTGGACCTCGTGTTCGCCAACCCGCCCGACCACTCGGCTCCGCTT GACCTCGTGTTCGCCAACCCGCCCGACCACTCGGCTCCGCTT E3 v310 ORF3 5406 GGCGTGACCAGGCCCAGCGCCCGCCGTTGCCTCACGTCGTAGACCTACC 51 GGCGTGACCAGGCCCAGCGCCCGCCGTTGCCTCACGTCGTAGACCTACC **E3** v360 ORF3 5456 ACAGCTGGGGCCGCCGCTAA 101 ACAGCTGGGGCCGCCGCTAA **E**3

## Figure 3

WO 01/22916 7/24 PCT/IB00/01393

PE2 101 V10 V V V V V V P PE2 151 KLSFWEAGTTKAGYPYNYNTTASDQLLVENAAGHRVAISTYTTSLGAGPV V210

PE2 201 SISAVAVLAPPPR

Figure 4

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PE3 1 DLVFANPPDHSAPLGVTRPSAPPLPHVVDLPQLGPRR.

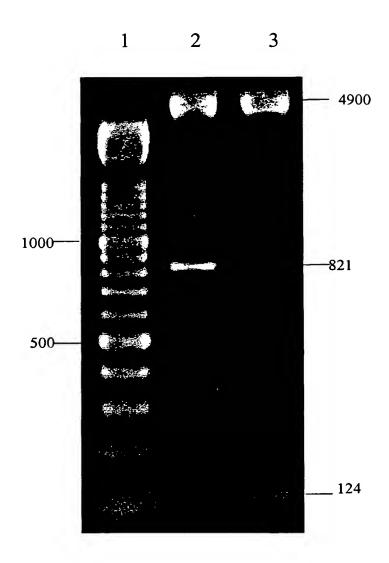
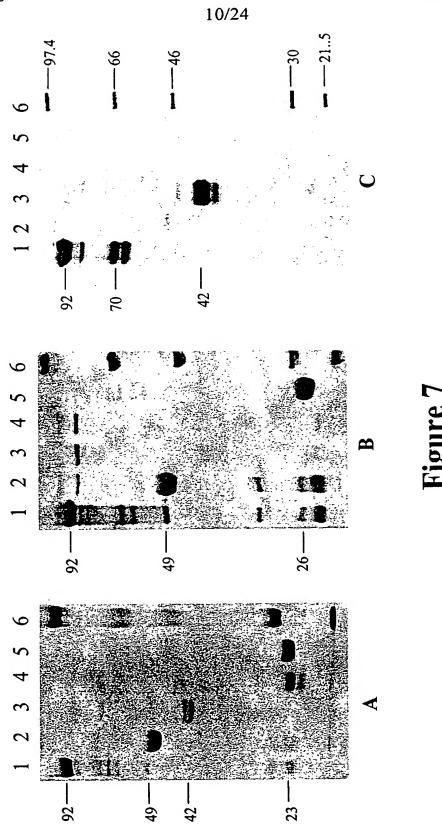


Figure 6



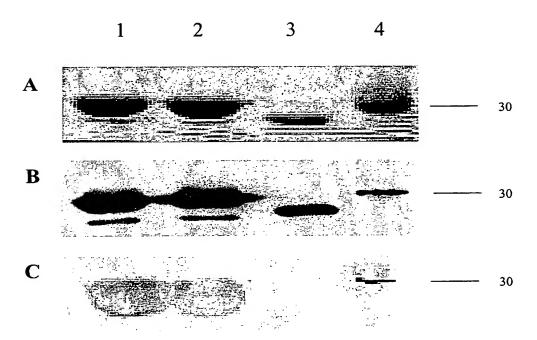
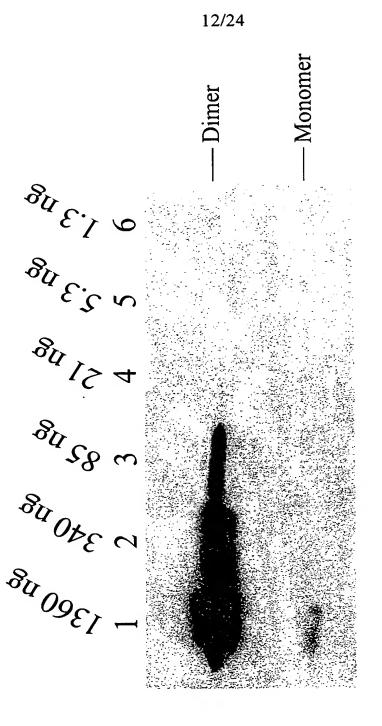


Figure 8

10000202



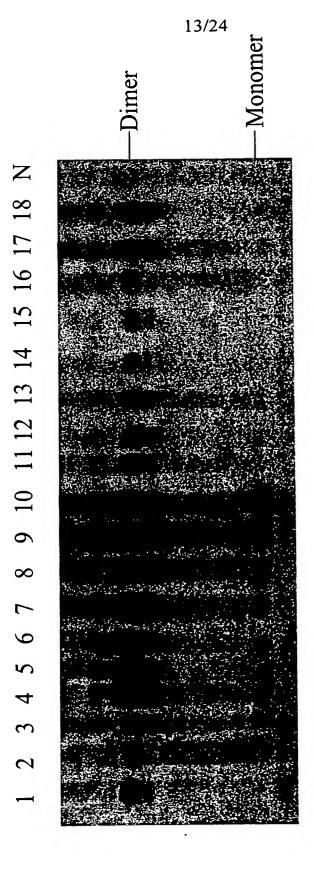
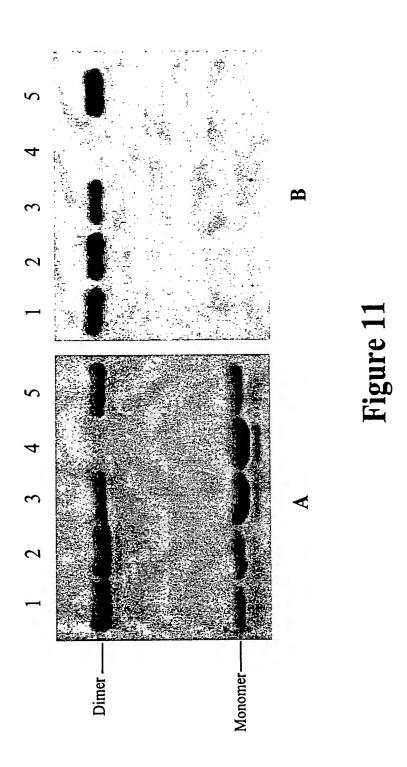


Figure 10

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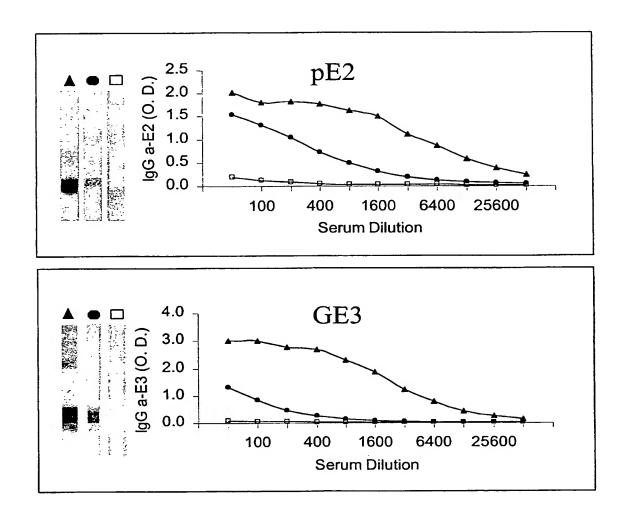
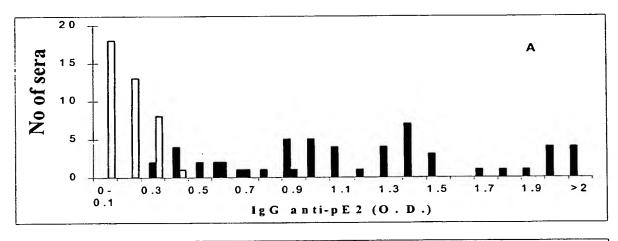


Figure 12



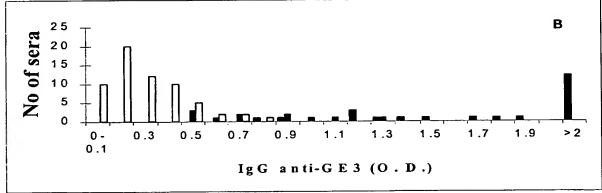
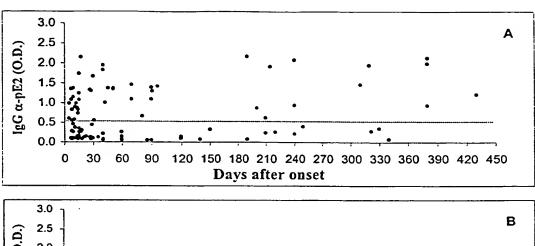
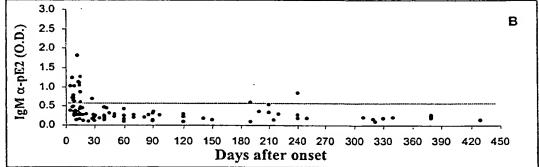
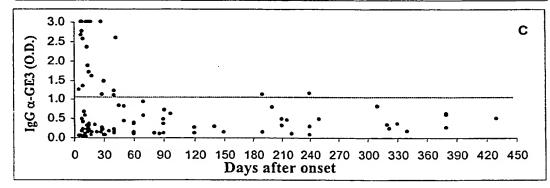


Figure 13







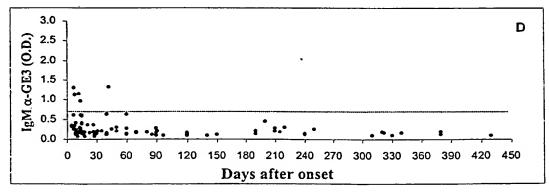


Figure 14

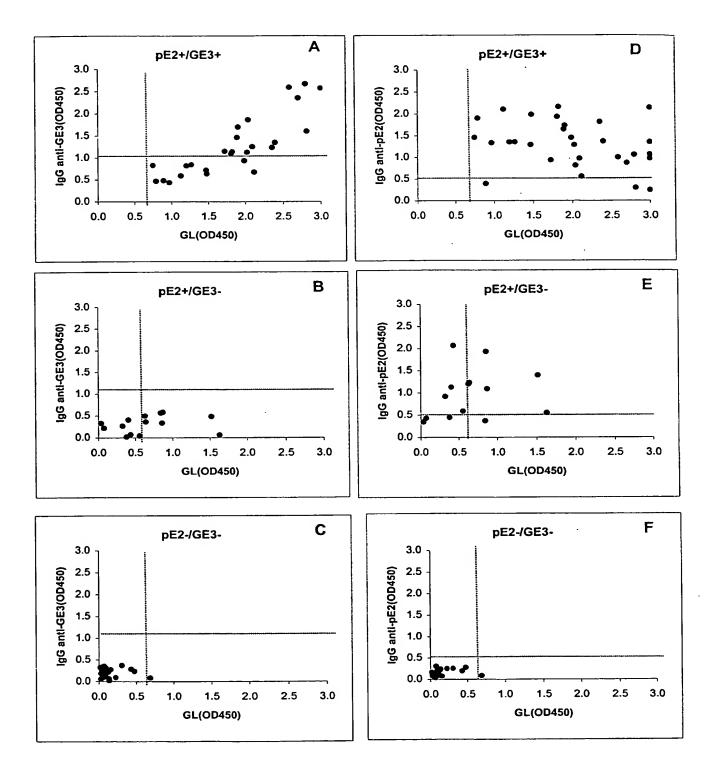
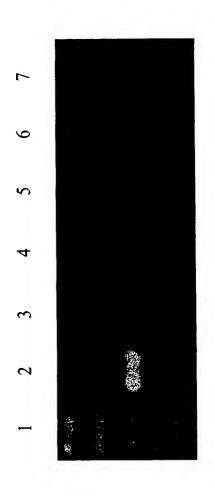


Figure 15





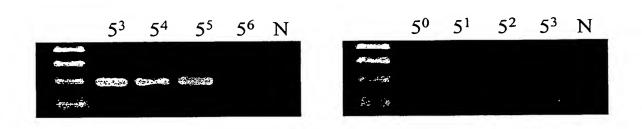
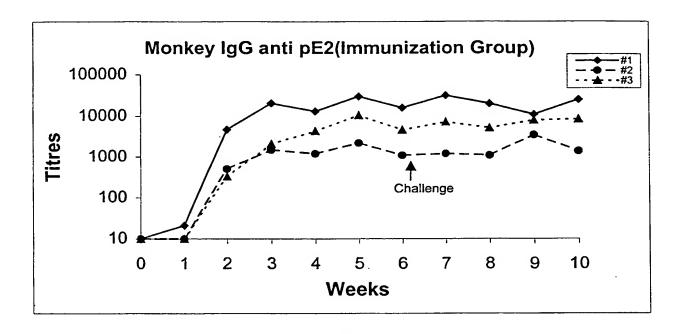


Figure 17

PCT/IB00/01393



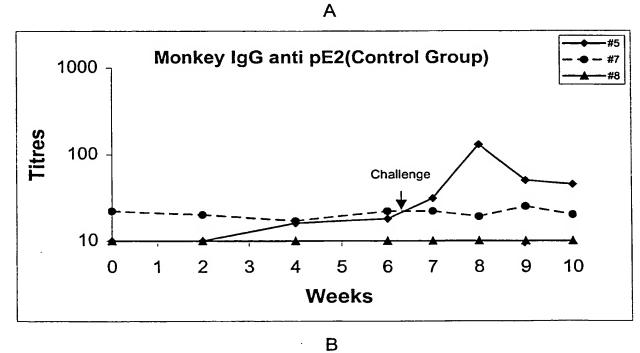


Figure 18

0.5

0.0

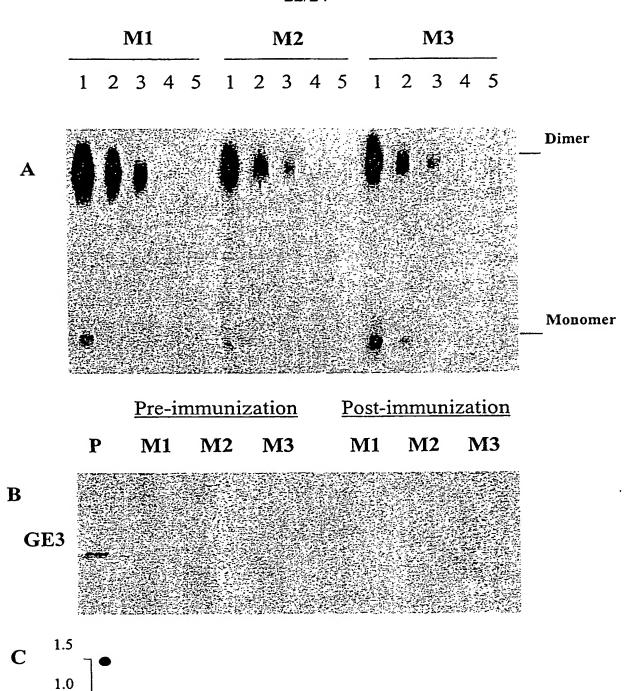


Figure 19

PCT/IB00/01393

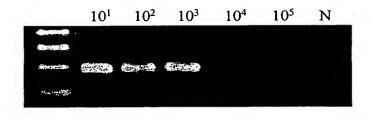


Figure 20

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PCT/IB00/01393

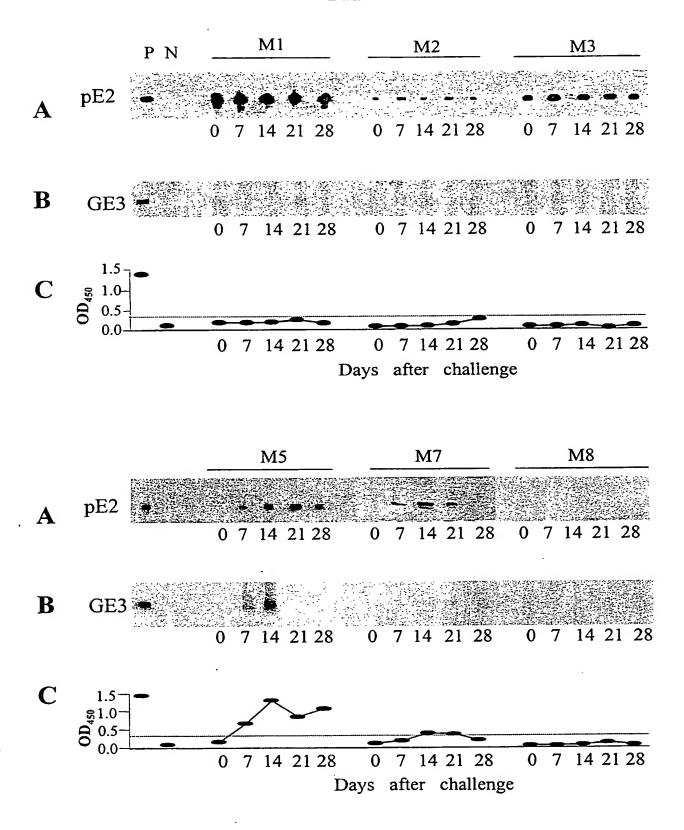


Figure 21